

# PATENT ABSTRACTS OF JAPAN

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(54) COOKER

(57)Abstract:

PROBLEM TO BE SOLVED: To raise the safety by preventing injuries, etc., of the finger at carrying, and to prevent the overheat of an instrument caused by the clogging of a ventilation port, and besides not to increase the number of parts.

SOLUTION: A foot 13 provided at a bottom member 12 and a protective part 13a for covering the lower end 11b of the flank of the cover member 11 forming the contour of a cooker are made integrally of resin material. This is provided so that the protective part 13a may project from the main body, in the direction of the

flank of the cover member 1 provided with a ventilation port. Hereby, the finger is never injured by the bottom end 11b of the flank, and also the instrument stored in the main body is never overheated due to the clogging of the ventilation port, since space can be secured between the ventilation port and a wall face.

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#### CLAIMS

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[Claim(s)]

[Claim 1] In the cooking device with which the leg which possesses the body section equipped with the covering member which forms the side face of at least

right and left to the outline of a cooking device, and the bottom surface part material which forms a base, and supports said body section to said bottom surface part material was prepared The cooking device characterized by coming to form said leg in the wrap protection section and one in a part or all of a side face of the lower limit section that was exposed to the exterior of said body section. [ of said covering member ]

[Claim 2] The cooking device according to claim 1 with which it comes to prepare a downward lobe in said protection section.

[Claim 3] Claim 1 which prepares and becomes so that it may project from said body section in the direction which has a bleeder at both the side face of said body section, or both [ one side or ], and said protection section looks at said body section from the upper part, and has said bleeder, or a cooking device given in either of 2.

[Claim 4] The cooking device according to claim 3 which comes to have opening into the part projected from said body section of said protection section.

[Claim 5] The cooking device according to claim 1 to 3 said whose protection section is what connects the two legs, the front approach of said bottom surface part, and tooth-back approach, with one.

[Claim 6] The cooking device according to claim 1 to 5 whose quality of the material of said leg and said protection section is resin material.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the cooking device which performs cooking etc.

[0002]

[Description of the Prior Art] The conventional cooking device Z is explained using drawing 6 . The cooking devices Z, such as a common microwave oven and oven, consist of the body section 40 which contains a heat chamber and various devices to the exterior and the interior, and the door 50 and control unit 60 which were prepared in the front face of the cooking device Z concerned. The body section 40 is formed removable on the screw the covering member 41 which forms the top face and a side face on either side, the bottom surface part material 42 which forms a base, and whose tooth-back member which is not illustrated [ which forms a tooth back ] are not illustrated. Thereby, at the time of an assembly and a maintenance, the device which removed said covering member 41 and was contained inside the body section 40 can be operated. Generally, lower limit section 41b of the covering member 41 is exposed to the exterior of the body section 40 in the condition of having projected a little below the bottom surface part material 42, as are shown in the sectional view of drawing 6 (c), and shown in the sectional view of the condition that the part which projects below the bottom surface part material 42 was bent at the bottom surface part material 42 side, or drawing 6 (d). Moreover, the four legs 43 for supporting the body section 40 are being fixed to right and left of the front approach of the bottom surface part material 42, and tooth-back approach by the bolt 44 grade. Furthermore, the bleeders 41a and 42a for cooling the device contained inside the body section 40 are formed in the side face or said tooth-back member, and the bottom surface part material 42 of the covering member 41.

[0003]

[Problem(s) to be Solved by the Invention] Generally, when a cooking device is carried for installation etc., it is held in many cases so that the part applied to a base may be supported by hand and may be held from the lower part of the side face of right and left of the body section 40. Moreover, in order to make small substantial installation area of the cooking device concerned as much as possible, the tooth back and side face of the body section 40 are brought close to

a wall surface as much as possible, and it is installed in many cases. However, in the conventional cooking device as shown in drawing 6, since the lower limit section of the side face of a covering member was exposed to the exterior of the body section, there was a trouble that a finger etc. might be damaged in the case of carrying. Moreover, in installation of the cooking device concerned, when spacing of the side face or tooth back in which the bleeder was prepared, and a wall surface was too narrow, cooling [ of a device ] became inadequate and there was also a trouble that failure by overheating of a device etc. occurred. Furthermore, the lower limit section of the side face of a covering member was assembled by the increment in components mark, when the protection member of a wrap sake etc. was prepared separately, the man day increased, and there was also a trouble of being time and effort. Therefore, the place which this invention is made in view of the above-mentioned situation, and is made into the purpose prevents overheating of the device by lock out of a bleeder, and is to offer the cooking device to which components mark moreover are not made to increase while preventing damage on the finger in the case of carrying etc. and raising safety.

[0004]

[Means for Solving the Problem] The covering member in which this invention forms the side face of at least right and left to the outline of a cooking device in order to attain the above-mentioned purpose, In the cooking device with which the leg which possesses the body section equipped with the bottom surface part material which forms a base, and supports said body section to said bottom surface part material was prepared Said leg is the cooking device characterized by coming to form in the wrap protection section and one a part or all of a side face of the lower limit section that was exposed to the exterior of said body section. [ of said covering member ] Thereby, damaging a finger in the lower limit section of the covering member exposed outside is lost, and moreover, since it is the leg and one, components mark are not made to increase in the case of carrying of a cooking device, even when the lower limit section of a right-and-left

both-sides side is supported by hand. Moreover, a downward lobe may prepare in said protection section. Thereby, a lobe starts a finger and it becomes easy to have it. Moreover, it has a bleeder at both the side face of said body section, or both [ one side or ], and what was prepared so that said protection section might project from said body section in the direction which looks at said body section from the upper part, and has said bleeder is considered. Since spacing with a bleeder, the tooth back of the location in which the cooking device concerned is installed, or the wall surface by the side of a side face is certainly securable by this, overheating of the receipt device by lock out of a bleeder can be prevented. Moreover, you may have opening into the part projected from said body section of said protection section. It becomes easy to have if it considers as opening which is extent containing a finger by this. Moreover, said protection section may connect the two legs, the front approach of said bottom surface part, and tooth-back approach, with one. Thereby, components mark decrease more. Moreover, the quality of the material of said leg and said protection section may be resin material. This does not damage the installation side of the cooking device concerned, and one molding of the leg and the protection section is also easy.

[0005]

[Embodiment of the Invention] Referring to an accompanying drawing below, the gestalt and example of operation of this invention are explained, and an understanding of this invention is presented. In addition, the gestalt and example of the following operations are an example which materialized this invention, and are not the thing of the character which limits the technical range of this invention. Drawing showing the appearance of the cooking device X2 which drawing which expresses the appearance of the cooking device X1 which drawing 1 requires for the gestalt of operation of this invention, and the structure of the leg here, and drawing 2 require for the example of this invention, and the structure of the leg, and drawing 3 the structure of the leg of the application of the cooking device X2 concerning the example of this invention Drawing showing the appearance of the cooking device X3 which drawing which expresses, and drawing 4 require for the

example of this invention, and the structure of the leg, drawing seen from the base side in the application of the cooking device X3 which drawing 5 requires for the example of this invention, and drawing 6 are drawings showing the appearance of the conventional cooking device Z, and the structure of the leg.

[0006] First, the cooking device X1 concerning the gestalt of operation of this invention is explained using drawing 1. Cooking devices X1 are heating cooking devices, such as a microwave oven and oven, and consist of the body section 10 which contains a heat chamber and various devices to the exterior and the interior, and the door 20 and control unit 30 which were prepared in the front face of the cooking device X1 concerned. The body section 10 is formed removable on the screw the covering member 11 which forms the top face and a side face on either side, the bottom surface part material 12 which forms a base, and whose tooth-back member which is not illustrated [ which forms a tooth back ] are not illustrated. Thereby, at the time of an assembly and a maintenance, the device which removed said covering member 11 and was contained inside said body section 10 can be operated. The four legs 13 for supporting said body section 10 are being fixed to right and left of the front approach of said bottom surface part material 12, and tooth-back approach with the bolt 14. The quality of the material of this leg 13 is resin material, and a blemish enables it not to attach it to the installation side of the cooking device X1 concerned easily. Moreover, the bleeders 11a and 12a for cooling the device contained inside the body section 10 are formed in the side face of the covering member 11, the bottom surface part material 12, and said tooth-back member (un-illustrating). As shown in the sectional view of drawing 1 (c), lower limit section 11b of the side face of said covering member 11 is prepared in wrap protection section 13a by said leg 13. Furthermore, said protection section 13a is prepared so that it may project in the direction of a tooth back. Moreover, said protection section 13a and said leg 13 are really cast by resin material. Drawing 1 (d) shows the case where the part which projects below the bottom surface part material 12 is not bent at the bottom surface part material 12 side, in lower limit section 11b of said covering

member 11. A finger will not be damaged, if it has by this so that it may support to said protection section 13a, applying a hand in case the cooking device X1 concerned is carried. Moreover, spacing of said bleeder prepared in said tooth-back member and the wall surface by the side of a tooth back can be secured certainly, said bleeder blockades by the wall surface, and it can prevent that an internal device is overheated. Furthermore, since said protection section 13a and said leg 13 are one, said protection section 13a will also be attached only by fixing said leg 13 with said bolt 14.

[Example]

[0007] Next, the cooking device X2 which is the application of said cooking device X1 is explained using drawing 2 . First, the point that a cooking device X2 differs from said cooking device X1 is a point which said leg 13 prepared respectively is connected with the front approach and tooth-back approach of said bottom surface part material 12 by said protection section 13a, and is constituted by one, as shown in drawing 2 (b). Thereby, in case [ of lower limit section 11b of the side face of said covering member 11 ] the whole is covered by said protection section 13a and carries the cooking device X2 concerned mostly, it becomes unnecessary to choose the location supported by hand. Furthermore, a further different point is a point of having prepared downward lobe 13b in the longitudinal direction of said protection section 13a, as shown in drawing 2 (c). Thereby, in case it supports and has said protection section 13a, since said lobe 13a is caught in a finger, it becomes easy to have. Moreover, as shown in drawing 3 , said protection section 13a is prepared for a long time, spacing of said bleeder 11a prepared in the side face of said covering member 11 when it constituted so that it might project in the direction of a side face of said covering member 11, and the wall surface by the side of a side face can be secured certainly, said bleeder 11a blockades by the wall surface, and it can prevent that an internal device is overheated.

[0008] Next, the cooking device X3 which is the application of said cooking device X1 is explained using drawing 4 . The point that a cooking device X3

differs from said cooking device X1 is a point of having prepared opening 13c of the magnitude which is extent with which a finger goes into the projected part while it prepares said protection section 13a for a long time and making it project in the direction of a side face of said covering member 11 as shown in drawing 4 (b). It very becomes easy to have, if it puts in and has a finger in opening 13c of said protection section 13a in case the cooking device X3 concerned is carried while spacing of said bleeder 11a prepared in the side face of said covering member 11 and the wall surface by the side of a side face is certainly securable by this. of course, the thing for which said leg 13 prepared in front approach and tooth-back approach is connected with one by said protection section 13a as shown in drawing 5 -- lower limit section 11b of the side face of said covering member 11 -- you may constitute so that the whole may be mostly covered by said protection section 13a. Even if this mistakes the location which it has in the case of carrying, a finger is not damaged and it becomes insurance more.

[0009]

[Effect of the Invention] As explained above, according to this invention, damage on the finger in the case of carrying of the side-face lower limit section etc. is prevented by the wrap protection section, and safety increases. Moreover, by projecting and preparing the protection section in the direction with a bleeder from the body section, spacing of a bleeder and a wall surface can be held and overheating of the device by lock out of a bleeder can be prevented. And since the protection section is prepared in the leg and one, components mark do not increase, but an assembly is possible for them at the same activity as installation of the conventional leg, and they do not increase the number of assemblers.

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#### DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] Drawing showing the appearance of the cooking device X1 concerning the gestalt of operation of this invention, and the structure of the leg.

[Drawing 2] Drawing showing the appearance of the cooking device X2 concerning the example of this invention, and the structure of the leg.

[Drawing 3] Drawing showing the structure of the leg of the application of the cooking device X2 concerning the example of this invention.

[Drawing 4] Drawing showing the appearance of the cooking device X3 concerning the example of this invention, and the structure of the leg.

[Drawing 5] Drawing seen from the base side in the application of the cooking device X3 concerning the example of this invention.

[Drawing 6] Drawing showing the appearance of the conventional cooking device Z, and the structure of the leg.

[Description of Notations]

10 40 -- Body section

11 41 -- Covering member

11a, 12a, 41a, 42a -- Bleeder

11b, 41b -- The lower limit section of the side face of a covering member

12 42 -- Bottom surface part material

13 43 -- Leg

13a -- Protection section

13b -- Lobe

13c -- Opening

14 44 -- Bolt

20 50 -- Door

30 60 -- Control unit

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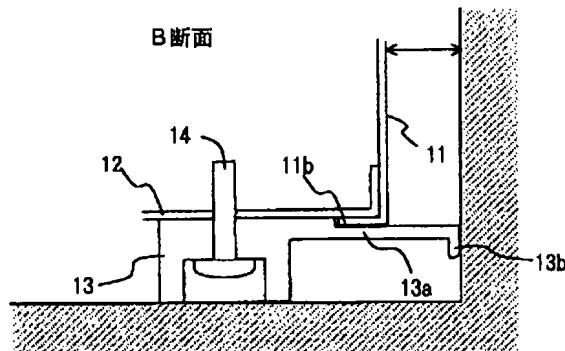
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(54)【発明の名称】 調理器

(57)【要約】

【課題】 持ち運びの際の指の損傷等を防止して安全性を高め、通気口の閉塞による機器の過熱を防止し、しかも部品点数を増加させない。

【解決手段】 底面部材12に設けられる脚部13と、本体外部に露出した、調理器の外郭を形成するカバー部材11の側面の下端部11bを覆う保護部13aとを、樹脂材によって一体に形成する。これを、保護部13aが通気口が設けられたカバー部材11の側面の方向に本体部から突出するように設ける。これにより、側面の下端部11bによって指が損傷することがなくなるとともに、通気口と壁面との空間が確保できることによって、本体内部に収納される機器が、通気口の閉塞によって過熱することもなくなる。



## 【特許請求の範囲】

【請求項1】 調理器の外郭の少なくとも左右の側面を形成するカバー部材と、底面を形成する底面部材とを備えた本体部を具備し、前記底面部材に前記本体部を支持する脚部が設けられた調理器において、前記脚部が、前記本体部の外部に露出した、前記カバー部材の側面の下端部の一部又は全部を覆う保護部と一体に形成されてなることを特徴とする調理器。

【請求項2】 前記保護部に下向きの突出部が設けられてなる請求項1に記載の調理器。

【請求項3】 前記本体部の側面又は背面の一方又は両方に通気口を有し、前記保護部が、前記本体部を上方から見て前記通気口のある方向に前記本体部から突出するよう設けられてなる請求項1又は2のいずれかに記載の調理器。

【請求項4】 前記保護部の前記本体部から突出した部分に開口を有してなる請求項3に記載の調理器。

【請求項5】 前記保護部が、前記底面部の前面寄り及び背面寄りの2つの脚部を一体に連結するものである請求項1～3のいずれかに記載の調理器。

【請求項6】 前記脚部及び前記保護部の材質が樹脂材である請求項1～5のいずれかに記載の調理器。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】 本発明は、加熱調理等を行う調理器に関するものである。

## 【0002】

【従来の技術】 従来の調理器Zについて、図6を用いて説明する。一般的な電子レンジやオーブン等の調理器Zは、その外観上、内部に加熱室や各種機器を収納する本体部40と、当該調理器Zの前面に設けられた扉部50及び操作部60とから構成される。本体部40は、その上面及び左右の側面を形成するカバー部材41と、底面を形成する底面部材42と、背面を形成する不図示の背面部材とが、不図示のビス等で着脱可能に設けられている。これにより、組み立て時やメンテナンス時には、前記カバー部材41を取り外して本体部40の内部に収納された機器を操作できる。一般に、カバー部材41の下端部41bは、図6(c)の断面図に示すように、底面部材42よりも下側に突出する部分が底面部材42側に折り曲げられた状態、或いは図6(d)の断面図に示すように、底面部材42よりも下側にやや突出した状態で本体部40の外部に露出している。また、本体部40を支持するための4つの脚部43が、底面部材42の前面寄り及び背面寄りの左右にボルト44等によって固定されている。さらに、カバー部材41の側面又は前記背面部材、及び底面部材42には、本体部40の内部に収納された機器を冷却するための通気口41a、42aが設けられている。

## 【0003】

【発明が解決しようとする課題】 一般に、調理器が設置等のために持ち運ばれる場合、本体部40の左右の側面の下部から底面にかけての部分を手で支えて抱えるように持たれことが多い。また、当該調理器の実質的な設置面積を極力小さくするため、本体部40の背面や側面を壁面に極力近づけて設置されることが多い。しかしながら、図6に示すような従来の調理器では、カバー部材の側面の下端部が本体部の外部に露出しているため、持ち運びの際に指等を損傷することがあるという問題点があった。また、当該調理器の設置において、通気口が設けられた側面又は背面と壁面との間隔が狭すぎると、機器の冷却が不十分となり、機器の過熱による故障等が発生するという問題点もあった。さらに、カバー部材の側面の下端部を覆うための保護部材等を別途設けると、部品点数増加により組み立て工数が増えて手間であるという問題点もあった。従って、本発明は上記事情に鑑みてなされたものであり、その目的とするところは、持ち運びの際の指の損傷等を防止して安全性を高めるとともに、通気口の閉塞による機器の過熱を防止し、しかも部品点数を増加させない調理器を提供することにある。

## 【0004】

【課題を解決するための手段】 上記目的を達成するためには本発明は、調理器の外郭の少なくとも左右の側面を形成するカバー部材と、底面を形成する底面部材とを備えた本体部を具備し、前記底面部材に前記本体部を支持する脚部が設けられた調理器において、前記脚部が、前記本体部の外部に露出した、前記カバー部材の側面の下端部の一部又は全部を覆う保護部と一体に形成されてなることを特徴とする調理器である。これにより、調理器の持ち運びの際に、左右両側面の下端部を手で支えた場合でも、外部に露出したカバー部材の下端部で指を傷つけることがなくなり、しかも、脚部と一体であるので部品点数を増加させることもない。また、前記保護部に下向きの突出部が設けてもよい。これにより、突出部が指に掛かって持ちやすくなる。また、前記本体部の側面又は背面の一方又は両方に通気口を有し、前記保護部が、前記本体部を上方から見て前記通気口のある方向に前記本体部から突出するよう設けたものも考えられる。これにより、通気口と当該調理器を設置する場所の背面又は側面側の壁面との間隔を確実に確保できるので、通気口の閉塞による収納機器の過熱を防止できる。また、前記保護部の前記本体部から露出した部分に開口を有するものであってもよい。これにより、例えば指が入る程度の開口とすれば、持ちやすくなる。また、前記保護部が、前記底面部の前面寄り及び背面寄りの2つの脚部を一体に連結するものであってもよい。これにより、より部品点数が少なくなる。また、前記脚部及び前記保護部の材質が樹脂材であってもよい。これにより、当該調理器の設置面を傷つけることがなく、脚部及び保護部の一体成型も容易である。

## 【0005】

【発明の実施の形態】以下添付図面を参照しながら、本発明の実施の形態及び実施例について説明し、本発明の理解に供する。尚、以下の実施の形態及び実施例は、本発明を具体化した一例であって、本発明の技術的範囲を限定する性格のものではない。ここに、図1は本発明の実施の形態に係る調理器X1の外観及び脚部の構造を表す図、図2は本発明の実施例に係る調理器X2の外観及び脚部の構造を表す図、図3は本発明の実施例に係る調理器X2の応用例の脚部の構造を表す図、図4は本発明の実施例に係る調理器X3の外観及び脚部の構造を表す図、図5は本発明の実施例に係る調理器X3の応用例において底面側から見た図、図6は従来の調理器Zの外観及び脚部の構造を表す図である。

【0006】まず、図1を用いて、本発明の実施の形態に係る調理器X1について説明する。調理器X1は、電子レンジやオーブン等の加熱調理器であり、その外観上、内部に加熱室や各種機器を収納する本体部10と、当該調理器X1の前面に設けられた扉部20及び操作部30とから構成される。本体部10は、その上面及び左右の側面を形成するカバー部材11と、底面を形成する底面部材12と、背面を形成する不図示の背面部材とが、不図示のビス等で着脱可能に設けられている。これにより、組み立て時やメンテナンス時には、前記カバー部材11を取り外して前記本体部10の内部に収納された機器を操作できる。前記底面部材12の前面寄り及び背面寄りの左右には、前記本体部10を支持するための4つの脚部13がボルト14によって固定されている。該脚部13の材質は樹脂材であり、当該調理器X1の設置面に傷がつきにくいようにしている。また、カバー部材11の側面、底面部材12、及び前記背面部材(不図示)には、本体部10の内部に収納された機器を冷却するための通気口11a、12aが設けられている。図1(c)の断面図に示すように、前記脚部13には、前記カバー部材11の側面の下端部11bを覆う保護部13aが設けられている。さらに、前記保護部13aは、背面方向に突出するように設けられている。また、前記保護部13aと前記脚部13とは樹脂材で一体成型されている。図1(d)は、前記カバー部材11の下端部11bにおいて、底面部材12よりも下側に突出する部分が底面部材12側に折り曲げられていない場合を示している。これにより、当該調理器X1を持ち運ぶ際に、前記保護部13aに手をかけて支えるように持てば、指を傷つけることがない。また、前記背面部材に設けられた前記通気口と背面側の壁面との間隔を確実に確保することができ、前記通気口が壁面によって閉塞し、内部の機器が過熱することを防止できる。さらに、前記保護部13aと前記脚部13とが一体であるため、前記脚部13を前記ボルト14で固定するだけで、前記保護部13aも取り付けられることになる。

## 【実施例】

【0007】次に、図2を用いて、前記調理器X1の応用例である調理器X2について説明する。調理器X2が前記調理器X1と異なる点は、まず、図2(b)に示すように、前記底面部材12の前面寄り及び背面寄りに各々設けられた前記脚部13が、前記保護部13aによって連結されて一体に構成されている点である。これにより、前記カバー部材11の側面の下端部11bのほぼ全体が前記保護部13aで覆われ、当該調理器X2を持ち運ぶ際に、手で支える位置を選ばなくともよくなる。さらに、さらに異なる点は、図2(c)に示すように、前記保護部13aの長手方向に下向きの突出部13bを設けている点である。これにより、前記保護部13aを支えて持つ際に、前記突出部13bが指に引っかかるので持ちやすくなる。また、図3に示すように、前記保護部13aを長く設けて、前記カバー部材11の側面方向に突出するように構成すれば、前記カバー部材11の側面に設けられた前記通気口11aと側面側の壁面との間隔を確実に確保することができ、前記通気口11aが壁面によって閉塞し、内部の機器が過熱することを防止できる。

【0008】次に、図4を用いて、前記調理器X1の応用例である調理器X3について説明する。調理器X3が前記調理器X1と異なる点は、図4(b)に示すように、前記保護部13aを長く設けて、前記カバー部材11の側面方向に突出するようにするとともに、突出した部分に、指が入る程度の大きさの開口13cを設けた点である。これにより、前記カバー部材11の側面に設けられた前記通気口11aと側面側の壁面との間隔を確実に確保することができるとともに、当該調理器X3を持ち運ぶ際に、前記保護部13aの開口13cに指を入れて持てば、非常に持ちやすくなる。もちろん、図5に示すように、前面寄り及び背面寄りに設けられた前記脚部13を、前記保護部13aによって一体に連結することにより、前記カバー部材11の側面の下端部11bのほぼ全体が前記保護部13aで覆われるよう構成してもよい。これにより、持ち運びの際に持つ位置を誤っても、指を傷つけることがなくより安全となる。

## 【0009】

【発明の効果】以上説明したように、本発明によれば、側面下端部を覆う保護部により持ち運びの際の指の損傷等を防止して安全性が高まる。また、保護部を通気口のある方向に本体部から突出して設けることにより、通気口と壁面との間隔を保持でき、通気口の閉塞による機器の過熱を防止できる。しかも、保護部は脚部と一体に設けられるので部品点数は増加せず、従来の脚部の取り付けと同様の作業で組み立て可能であり、組み立て工数を増やすことがない。

## 【図面の簡単な説明】

【図1】本発明の実施の形態に係る調理器X1の外観及

び脚部の構造を表す図。

【図2】本発明の実施例に係る調理器X2の外観及び脚部の構造を表す図。

【図3】本発明の実施例に係る調理器X2の応用例の脚部の構造を表す図。

【図4】本発明の実施例に係る調理器X3の外観及び脚部の構造を表す図。

【図5】本発明の実施例に係る調理器X3の応用例において底面側から見た図。

【図6】従来の調理器Zの外観及び脚部の構造を表す図。

【符号の説明】

10, 40…本体部

11, 41…カバー部材

11a, 12a, 41a, 42a…通気口

11b, 41b…カバー部材の側面の下端部

12, 42…底面部材

13, 43…脚部

13a…保護部

13b…突出部

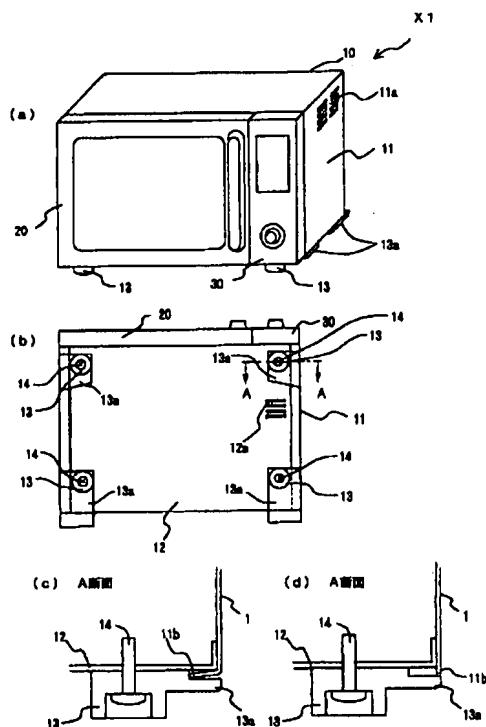
13c…開口

14, 44…ボルト

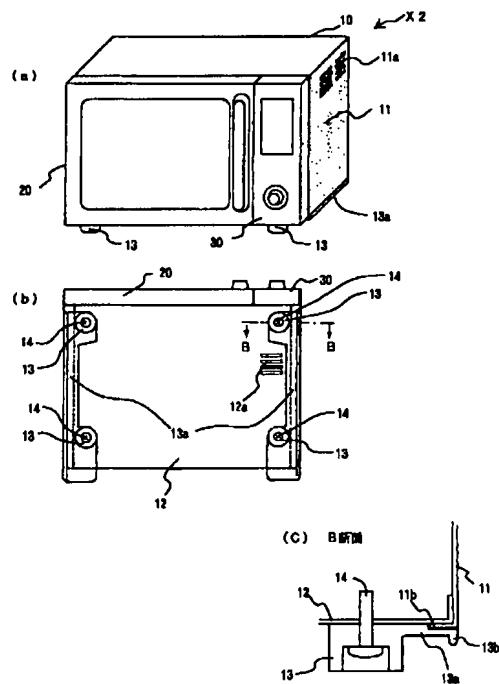
20, 50…扉部

30, 60…操作部

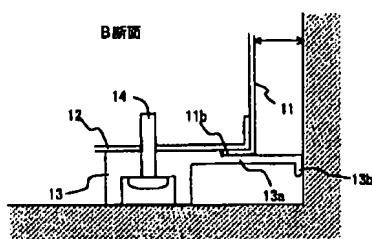
【図1】



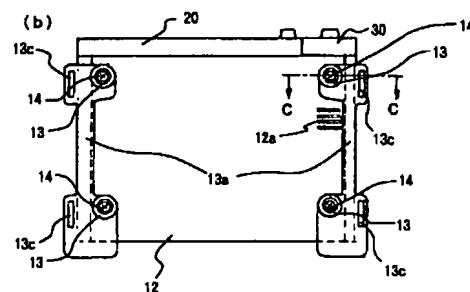
【図2】



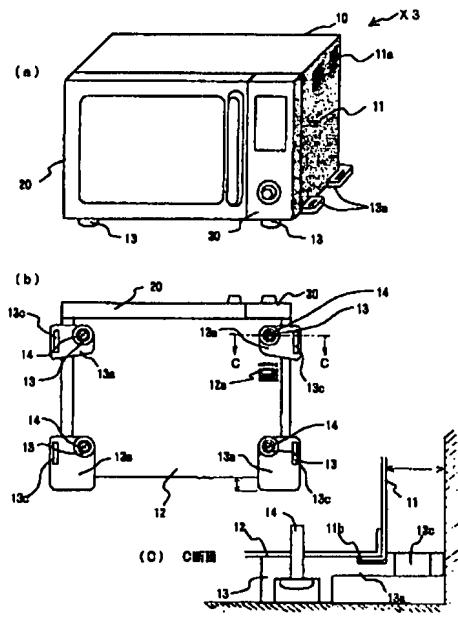
【図3】



【図5】



【図4】



【図6】

